

CONTENTS

ANDERSON, D. C. (see Green and Anderson)	741
ARTHUR, A. P.	655
ARTHUR, A. P., and J. A. JUILLET	297
ARTHUR, A. P. (see Bucher and Arthur)	1048
ATKINS, M. D.	467
BARLOW, C. A., and C. F. NICHOLLS	860
BARLOW, J. S. (see House and Barlow)	1041
BECKER, E. C.	161
BEDARD, W. D. (see Lindquist and Bedard)	982
BEGG, J. A.	1022
BEIQUE, R.	1085
BIGELOW, R. S. (see Jobin and Bigelow)	313
BIRD, F. T. and J. M. BURK	228
BLAIS, J. R.	643
BLAIS, J. R. (see Pilon and Blais)	118
BLAIS, J. R. (see Webb, Blais and Nash)	360
BRACKEN, D. F.	573
BRADLEY, G. A. (see MacGillivray and Bradley)	999
BRIAND, L. J. (see Welch and Briand)	759
BROWN, F. M.	107
BROWN, N. R. (see Clark and Brown)	1162
BROWN, W. J.	967
BUCHER, G. E., and A. P. ARTHUR	1048
BUCHER, G. E., and P. HARRIS	931
BUGBEE, R. E.	33
BURGESS, L., and G. H. HAMMOND	670
BURK, J. M. (see Bird and Burk)	228
BUSHING, R. W. (see Lyon and Bushing)	785
BUTCHER, J. W. (see Haynes and Butcher)	561
CAMPBELL, I. M.	1160
CHANT, D. A.	437
CHILLCOTT, J. G., <i>Fannia</i>	81
CHILLCOTT, J. G., <i>Roederioides</i>	419
CHILLCOTT, J. G., <i>Bolbomyia</i>	632
CHURCH, N. S. (see Hobbs, Holmes, Swailes and Church)	801
CLARK, R. C.	1010
CLARK, R. C., and N. R. BROWN	1162

Q L 461
C 21
V-93
1961

CONTENTS

ANDERSON, D. C. (see Green and Anderson)	741
ARTHUR, A. P.	655
ARTHUR, A. P., and J. A. JUILLET	297
ARTHUR, A. P. (see Bucher and Arthur)	1048
ATKINS, M. D.	467
BARLOW, C. A., and C. F. NICHOLLS	860
BARLOW, J. S. (see House and Barlow)	1041
BECKER, E. C.	161
BEDARD, W. D. (see Lindquist and Bedard)	982
BEGG, J. A.	1022
BEIQUE, R.	1085
BIGELOW, R. S. (see Jobin and Bigelow)	313
BIRD, F. T. and J. M. BURK	228
BLAIS, J. R.	643
BLAIS, J. R. (see Pilon and Blais)	118
BLAIS, J. R. (see Webb, Blais and Nash)	360
BRACKEN, D. F.	573
BRADLEY, G. A. (see MacGillivray and Bradley)	999
BRIAND, L. J. (see Welch and Briand)	759
BROWN, F. M.	107
BROWN, N. R. (see Clark and Brown)	1162
BROWN, W. J.	967
BUCHER, G. E., and A. P. ARTHUR	1048
BUCHER, G. E., and P. HARRIS	931
BUGBEE, R. E.	33
BURGESS, L., and G. H. HAMMOND	670
BURK, J. M. (see Bird and Burk)	228
BUSHING, R. W. (see Lyon and Bushing)	785
BUTCHER, J. W. (see Haynes and Butcher)	561
CAMPBELL, I. M.	1160
CHANT, D. A.	437
CHILLCOTT, J. G., <i>Fannia</i>	81
CHILLCOTT, J. G., <i>Roederioides</i>	419
CHILLCOTT, J. G., <i>Bolbomyia</i>	632
CHURCH, N. S. (see Hobbs, Holmes, Swailes and Church)	801
CLARK, R. C.	1010
CLARK, R. C., and N. R. BROWN	1162

Q L 461
C 21
V-93
1961

CONDRAHOFF, S. F., <i>Contarinia</i> , n. spp.	123
CONDRAHOFF, S. F., Immature <i>Contarinia</i>	833
CROWELL, R. M.	321
CUMING, F. G.	135
DAHLSTEN, D. L.	182
DALSTEN, D. L. (see Stark and Dalsten)	443
DAVIES, L.	1113
DEPNER, K. R.	855
DOANE, C. C., <i>Pineus</i> spp.	553
DOANE, J. F., Movement of Elateridae	636
DODGE, H. R., <i>Glypta</i> and <i>Apanteles</i>	222
DODGE, H. R., Female <i>Sarcophaga</i>	781
DONDALE, C. D.	199
DROOZ, A. T.	804
DYER, E. D. A. and J. M. KINGHORN	746
EDWARDS, R. L., Area of Discovery	477
EDWARDS, R. L. Movement of a Grasshopper	628
EIDT, D. C.	24
EIDT, D. C., and W. L. SIPPELL	7
EVANHUIS, H. H.	1020
FINLAYSON, THELMA, Mineral Effects	626
FINLAYSON, THELMA, Temperature Effects	799
FINNEGAN, R. J.	501
FLINT, O. S. and G. B. WIGGINS	279
FOX, C. J. S.	276
FREDEEN, F. J. H.	73
GARDINER, L. M., Milkweed Beetle	678
GARDINER, L. M., Immature <i>Hyperplatys</i>	1011
GEORGE, J. A.	564
GREEN, G. W., and D. C. ANDERSON	741
GRIFFITHS, K. J.	1005
GUPPY, J. C., Clover Seed Midge	59
GUPPY, J. C., Armyworm Parasites	569
GUPPY, J. C., Armyworm Biology	1141
GUPTA, A. P.	482
HALL, R. R., and J. A. MCKIEL	891
HAMMOND, G. C. (see Burgess and Hammond)	670
HANDFORD, R. H.	665
HARRIS, G. R., and H. J. MAZUREK	812

HARRIS, P.	977
HARRIS, P. (see Bucher and Harris)	931
HARCOURT, D. G., Sampling Plan Design	820
HARCOURT, D. G., Spatial Pattern of <i>P. rapae</i>	945
HARVEY, G. T.	594
HARVEY, J. K.	80
HAUFE, W O.	522
HAYNES, D. L., and J. W. BUTCHER	561
HEDLIN, A. F.	952
HERBERT, H. JUNE	380
HERDY, H., and J. B. THOMAS, <i>Conophthorus</i> on Jackpine	34
HERDY, H. (see Thomas and Herdy)	406
HERON, R. J.	431
HOBBS, G. A., W. O. NUMMI and J. F. VIROSTEK, <i>Anthophora</i> nest	142
HOBBS, G. A., W. O. NUMMI and J. F. VIROSTEK, Food gathering	409
HOBBS, G. A., N. D. HOLMES, G. F. SWAILES and N. S. CHURCH	801
HOBBS, G. A. (see Holmes, Swailes and Hobbs)	644
HOLDAWAY, F. G. (see Loan and Holdaway)	1057
HOLMES, N. D., and L. K. PETERSON	250
HOLMES, N. D., G. E. SWAILES and G. A. HOBBS	644
HOLMES, N. D. (see Hobbs, Holmes, Swailes and Church)	801
HOPPING, G. R.	1050
HOUSE, H. L., and J. S. BARLOW	1041
HOUSE, H. L., and LOIS E. ROLLINS	653
HOWDEN, H. F.	807
HUDON, M., and E. J. LEROUX	867
JACKSON, C.	1154
JAMES, H. G., and C. F. NICHOLLS	1053
JOBIN, L. J., and R. S. BIGELOW	313
JOHNSON, C.	260
JOHNSON, N. E., and H. D. MOLATORE	928
JOHNSON, N. E. (see Mitchell, Johnson and Rudinsky)	794
JUILLET, J. A.	195
JUILLET, J. A. (see Arthur and Juillet)	297
JUDD, W. W.	241
KELTON, L. A., <i>Stenodema</i>	450
KELTON, L. A., <i>Diaphnidia</i>	556
KELTON, L. A., <i>Gerris</i>	663
KEVAN, D. K. McE.	605

7	KINGHORN, J. M. (see Dyer and Kinghorn)	746
1	LaFRANCE, J. (see Perron and LaFrance)	101
0	LEIUS, K., Food and <i>I. conquisitor</i>	771
5	LEIUS, K., Food and <i>S. buolianae</i>	1079
4	LEJEUNE, R. R., and G. T. SILVER	456
0	LeROUX, E. J.	680
2	LeROUX, E. J. (see Hudon and LeRoux)	867
1	LINDQUIST, E. E., and W. D. BEDARD	982
2	LOAN, C. and F. G. HOLDAWAY	1057
0	LORD, F. T., and D. K. R. STEWART	924
4	LYON, R. L., and R. W. BUSHING	785
6	MACGILLIVRAY, M. E., and G. A. BRADLEY	999
1	MACPHEE, A. W., and K. H. SANFORD	671
2	MADSEN, H. F.	660
9	MASON, W. R. M.	3
1	MAW, M. G., Electric Charge Barrier	391
4	MAW, M. G., Oviposition in electric field	602
7	MAYBEE, G. E., and H. G. WYLIE	851
0	MAYBEE, G. E. (see Nicholls and Maybee)	238
4	MAZUREK, H. F. (see Harris and Mazurek)	812
1	McALPINE, J. F., <i>Dasiops alveofrons</i>	539
0	McALPINE, J. F., <i>Tabanus frontalis</i> complex	894
1	McKIEL, J. A. (see Hall and McKiel)	891
3	McLEOD, J. M.	888
7	MEDLER, J. T., <i>Hoplitis products</i>	571
7	MEDLER, J. T. (see Orlob and Medler)	703
4	MILLER, C. D. F.	494
3	MILLIRON, H. E.	1017
1	MITCHELL, R. G., N. E. JOHNSON and J. A. RUDINSKY	794
0	MOLATORE, H. D. (see Johnson and Molatore)	928
8	MORRIS, R. F.	130
4	MUSGRAVE, A. J. (see Sevintuna and Musgrave)	545
5	NASH, R. W. (see Webb, Blais and Nash)	360
9	NICHOLLS, C. F.	865
7	NICHOLLS, C. F. and G. E. MAYBEE	238
1	NICHOLLS, C. F. (see Barlow and Nicholls)	860
0	NICHOLLS, C. F. (see James and Nicholls)	1053
6	NUMMI, W. O. (see Hobbs, Nummi and Visostek)	142
3	NUMMI, W. O. (see Hobbs, Nummi and Virostek)	409
5	ORLOB, G. B., and J. T. MEDLER	703

PERRON, J. P., and J. LaFRANCE	101
PETERSON, L. K. (see Holmes and Peterson)	250
PIELOU, D. P., and K. WILLIAMS, Diazinon, Trithion & Sevin	93
PIELOU, D. P., and K. WILLIAMS, Thiodon & Guthion	1036
PILON, J. G., and J. R. BLAIS	118
POINTING, P. J.	1098
RICHARDS, W. R., <i>Bornerina</i> & <i>Betulaphis</i>	486
RICHARDS, W. R., Arctic Aphids	497
RICHARDS, W. R. Rose Aphids	622
ROBINSON, A. G.	156
ROLLINS, LOIS E. (see House and Rollins)	653
RUDINSKY, J. A. (see Mitchell, Johnson and Rudinsky)	794
SANFORD, K. H. (see MacPhee and Sanford)	671
SCUDDER, G. G. E.	267
SEVINTUNA, C., and A. J. MUSGROVE	545
SHEPHERD, R. F.	764
SHEWELL, G. E.	1044
SILVER, G. T. (see Lejeune and Silver)	456
SIMEONE, J. B.	428
SINHA, R. N.	609
SIPPELL, W. L.	433
SIPPELL, W. L. (see Eidt and Sippell)	7
SIPPELL, W. L. (see Watson and Sippell)	403
SMIRNOFF, W. A.	272
SMITH, R. W.	714
STANGE, L. A.	674
STARK, R. W., and D. L. DAHLSTEN	443
STEWART, D. K. R. (see Lord and Stewart)	924
SULLIVAN, C. R., <i>P. strobi</i> with Co ⁶⁰	78
SULLIVAN, C. R., Weather and <i>P. strobi</i>	721
SWAILES, G. E.	940
SWAILES, G. E. (see Hobbs, Holmes, Swailes and Church)	801
SWAILES, G. E. (see Holmes, Swailes and Hobbs)	644
TELFORD, A. D.	394
THOMAS, J. B.	384
THOMAS, J. B., and H. HERDY, <i>Eurytoma calycis</i>	34
THOMAS, J. B., and H. HERDY, <i>Cimberis elongatus</i>	406
THOMAS, J. B. (see Herdy and Thomas)	936
TRIPP, H. A.	40

01	VIROSTEK, J. F. (see Hobbs, Nummi and Virostek)	142
50	VIROSTEK, J. F. (see Hobbs, Nummi and Virostek)	409
93	VOCKEROTH, J. R.	503
36	WALLEY, G. S.	1
18	WATSON, W. Y., and W. L. SIPPELL	403
98	WEBB, F. E., J. R. BLAIS, and R. W. NASH	360
86	WEINTRAUB, J.	149
97	WELCH, H. E., and L. J. BRIAND	759
22	WIGGINS, G. B.	695
56	WIGGINS, G. B. (see Flint and Wiggins)	279
53	WILLIAMS, K. (see Pielou and Williams)	93
94	WILLIAMS, K. (see Pielou and Williams)	1036
71	WYLIE, H. G. (see Maybee and Wylie)	851
67	YUNKER, C. E.	1023

INDEX OF NEW TAXA

NEW GENERA AND SUBGENERA

<i>Bak</i> Yunker (Acarina)	1023
<i>Diaphnocoris</i> Kelton (Hemiptera)	566
<i>Fossocarus</i> Howden (Coleoptera)	307
<i>Gibberella</i> Miller (Hymenoptera)	494
<i>Placoaphis</i> Richards (Homoptera)	622
<i>Pseudocercidis</i> Richards (Homoptera)	622
(<i>Sorbobium</i>) MacGillivray and Bradley [Subgenus of <i>Toxopterella</i>] (Homoptera)	1000

NEW SPECIES AND SUBSPECIES

<i>alveofrons</i> McAlpine, <i>Daniops</i>	539
<i>arctosetis</i> Richards, <i>Betulaphis</i>	490
<i>argyresthiae</i> Walley, <i>Pimplopterus</i>	1
<i>aureus</i> Richards, <i>Betulaphis</i>	489
<i>azaleae</i> Brown, <i>Chlamisus</i>	972
<i>borealis</i> Brown, <i>Syneta extorris</i>	968
<i>calycis</i> Bugbee, <i>Eurytoma</i>	33
<i>californica</i> Brown, <i>Phratara</i>	976
<i>cinerea</i> Chillcott, <i>Fannia</i>	90
<i>confusus</i> Lindquist and Bedard, <i>Tarsonemoides</i>	992
<i>constricta</i> Condorashoff, <i>Contarinia</i>	123
<i>creolorum</i> Howden, <i>Fossocarus</i>	808
<i>cuniculator</i> Condorashoff, <i>Contarinia</i>	123
<i>deleoni</i> Yunker, <i>Bak</i>	1023
<i>denmarki</i> Yunker, <i>Cbeletomimus</i>	1032
<i>distincta</i> Chillcott, <i>Roederioides</i>	422
<i>dolomata</i> Vockeroth, <i>Geomyza</i>	514
<i>drepanosiphoides</i> MacGillivray and Bradley, <i>Toxopterella</i>	1000
<i>erema</i> Chillcott, <i>Fannia</i>	89
<i>excavatum</i> Flint and Wiggins, <i>Lepidostoma</i>	281
<i>fuscinata</i> Chillcott, <i>Fannia</i>	86
<i>grabami</i> Chillcott, <i>Fannia</i>	83
<i>hesperia</i> Brown, <i>Chrysomela knabi</i>	974
<i>indica</i> Chillcott, <i>Fannia</i>	91
<i>ipinensis</i> Chillcott, <i>Fannia</i>	88
<i>kmulli</i> Becker, <i>Ctenicera</i>	174
<i>laricellae</i> Mason, <i>Alegina</i>	4

<i>laricellae</i> Mason, <i>Phaeogenes</i>	3
<i>longicornis</i> Richards, <i>Euschizaphis</i>	498
<i>macgillisi</i> Chillcott, <i>Bolbomyia</i>	634
<i>melsheimeri</i> Becker, <i>Ctenicera</i>	178
<i>minica</i> Becker, <i>Ctenicera</i>	179
<i>minica</i> Brown, <i>Labidomera</i>	973
<i>mittelli</i> Flint and Wiggins, <i>Lepidostoma</i>	281
<i>monticola</i> Vockeroth, <i>Geomyza</i>	505
<i>multispinosus</i> Howden, <i>Gronocarus</i>	809
<i>nearcticus</i> Kelton, <i>Gerris</i>	663
<i>nudiseta</i> Chillcott, <i>Fannia</i>	82
<i>parvistigma</i> Vockeroth, <i>Geomyza</i>	505
<i>pediontis</i> McAlpine, <i>Tabanus</i>	907
<i>pilosopes</i> Kelton, <i>Stenodema</i>	451
<i>plastographus</i> Lindquist and Bedard, <i>Tarsonemoides</i>	993
<i>prolata</i> Chillcott, <i>Fannia</i>	81
<i>pseudosugae</i> Condorashoff, <i>Contarinia</i>	123
<i>punctatella</i> Richards, <i>Iziphya</i>	497
<i>radiatae</i> Lindquist and Bedard, <i>Tarsonemoides</i>	992
<i>recurvata</i> Chillcott, <i>Roederioides</i>	422
<i>retroversa</i> Chillcott, <i>Roederioides</i>	422
<i>rosae</i> Richards, <i>Pseudocercidis</i>	622
<i>sanctabelenae</i> Yunker, <i>Bak</i>	1023
<i>schwarzi</i> Becker, <i>Ischiodonus</i>	169
<i>scutellata</i> Miller, <i>Gibberella</i>	495
<i>serratum</i> Flint and Wiggins, <i>Lepidostoma</i>	281
<i>shinabanae</i> Chillcott, <i>Fannia</i>	284
<i>siphunculata</i> Richards, <i>Placoaphis</i>	622
<i>stylifer</i> Flint and Wiggins, <i>Lepidostoma</i>	281
<i>tunisiae</i> Chillcott, <i>Fannia</i>	85
<i>variabilis</i> Richards, <i>Börnerina</i>	486
<i>velata</i> Vockeroth, <i>Geomyza</i>	505
<i>vespertina</i> Vockeroth, <i>Geomyza</i>	505
<i>vockerothi</i> Chillcott, <i>Roederioides</i>	422
<i>wirthi</i> Chillcott, <i>Roederioides</i>	422

3
98
34
78
79
73

281
505
809
563
82
505
907
451

993
81
123
497

992
422
422
622
023
169
495

281
284
622

281
85
486
505
505
422
422